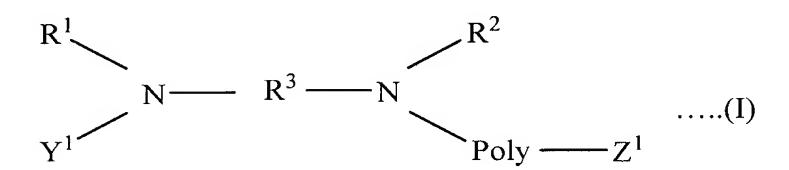
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original) A modified conjugated diene polymer comprising a homopolymer of a conjugated diene compound or a copolymer of a conjugated diene compound and an aromatic vinyl compound and characterized by the following formula (I):



(wherein R^1 and R^2 are independently an alkyl or aryl group having a carbon number of 1-20, a substituted silyl group or a hydrogen atom; R^3 is an alkylene or arylene group having a carbon number of 1-12 provided that it may include a hetero atom unless it has not an active proton; Y^1 is a substituted silyl group or a hydrogen atom; a part of R^1 , R^2 , R^3 and Y^1 may be bonded to each other to form a cyclic structure; Poly is a homopolymer part of a conjugated diene compound or a copolymer portion of a conjugated diene compound and an aromatic vinyl compound; Z^1 is an alkali metal or an alkaline earth metal, or a residue produced by reacting with a carbanion reactive compound, or a hydrogen atom).

2. (original) A modified conjugated diene polymer according to claim 1, wherein R² in the formula (I) is an alkyl or aryl group having a carbon number of 1-20.

- 3. (original) A modified conjugated diene polymer according to claim 1, wherein the conjugated diene compound is 1,3-butadiene or isoprene.
- 4. (original) A modified conjugated diene polymer according to claim 1, wherein the aromatic vinyl compound is styrene.
- 5. (original) A modified conjugated diene polymer according to claim 1, wherein said polymer is a copolymer of the conjugated diene compound and the aromatic vinyl compound.
- 6. (original) A modified conjugated diene polymer according to claim 1, wherein said polymer has a Moony viscosity ML_{1+4} (100°C) of 10-150.
- 7. (original) A modified conjugated diene polymer according to claim 1, wherein said polymer is a modified conjugated diene polymer obtained by modifying a modified conjugated diene polymer wherein Z^1 in the formula (I) is an alkali metal or an alkaline earth metal with a carbanion reactive compound, in which Z^1 in the formula (I) is a residue produced by reacting with the carbanion reactive compound.
- 8. (original) A modified conjugated diene polymer according to claim 7, wherein the carbanoin reactive compound used in the modification is a compound including at least one of C=X (X is O, S or C) and an epoxy group as a carbanion reaction site and a nitrogencontaining functional group, a silicon-containing compound, or a tin-containing compound.
- 9. (original) A modified conjugated diene polymer according to claim 8, wherein the carbanion reactive compound used in the modification is at least one selected from the group consisting of 4-dimethylamino benzophenone, 4-diethylamino benzophenone, 4,4'-

bis(dimethylamino) benzophenone, 4,4'-bis(diethylamino) benzophenone, 4-dimetlamino benzaldehyde, 4-diethylamino benzaldehyde, 1,1-bis(4-dimethylaminophenyl) ethylene, 1,1-bis(4-diethylaminophenyl) ethylene, 1,1-dimethoxy trimethylamine, 4-dimethylaminobenzylidene aniline, N,N-dimethylformamide, N,N-diethylformamide, N,N-diethylacetoamide, N,N-diethylacetoamide, 4-pyridylamide, 4-pyridyl-ethyleneoxide, 4-vinylpyridine, 2-vinylpyridine, dicyclohexyl carbodiimide, ε-caprolactam, N-methyl-ε-caprolactam, 1,3-dimethyl-2-imidazolydinone, N-methylpyrolidone, pheylisocyanate, pheylthioisocyanate and diisocyanate diphenylmethane.

10. (original) A modified conjugated diene polymer according to claim 8, wherein the carbanion reactive compound used in the modification is a coupling agent represented by the following formula (II):

$$R_a^4 Z^2 X_b^1 \dots (II)$$

(wherein R^4 is independently selected from an alkyl group having a carbon number of 1-20, a cycloalkyl group having a carbon number of 3-20, an aryl group having a carbon number of 6-20 and an aralkyl group having a carbon number of 7-20; Z^2 is tin or silicon atom; X^1 is independently chlorine or bromine atom; and a is an integer of 0-3 and b is an integer of 1-4 provided that a+b=4).

11. (original) A modified conjugated diene polymer according to claim 8, wherein the carbanion reactive compound used in the modification is at least one selected from the group consisting of a hdrocarbyloxysilane compound represented by the following formula (III):

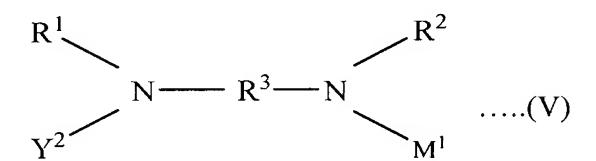
$$A^{1}$$
 R^{5}
 Si
 OR^{7}
 OR^{7}

[wherein A¹ is a monovalent group having at least one functional group selected from (thio)epoxy, (thio)isocyanate, (thio)ketone, (thio)aldehyde, imine, amide, isocyanuric acid triester, (thio)carboxylic acid hydrocarbylester, a metal salt of (thio)carboxylic acid, carboxylic anhydride, a halide of carboxylic acid, carbonic acid dihydrocarbylester, cyclic tertiary amine, non-cyclic tertiary amine, nitrile, pyridine, sulfide, multi-sulfide, an alkali metal salt of amine, al alkaline earth metal salt of amine, silazane and disilazane; R⁵ is a single bond or a divalent inactive hydrocarbon group; R⁶ and Rⁿ are independently a monovalent aliphatic hydrocarbon group having a carbon number of 1-20 or a monovalent aromatic hydrocarbon group having a carbon number of 6-18; n is an integer of 0-2; when plural ORⁿs are existent, these ORⁿs may be same or different; active proton and onium salt is not included in the molecule] and/or a partial condensate thereof, and a hydrocarbyloxysilane compound represented by the following formula (IV):

$$R^{8}_{p}$$
-Si- $(OR^{9})_{4-p}$ (IV)

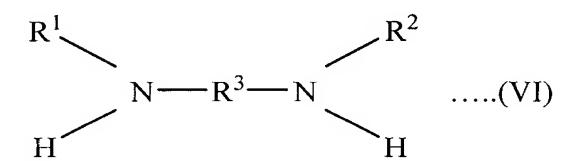
(wherein R⁸ and R⁹ are independently a monovalent aliphatic hydrocarbon group having a carbon number of 1-20 or a monovalent aromatic hydrocarbon group having a carbon number of 6-18; p is an integer of 0-2; when plural OR⁹s are existent, these OR⁹s may be same or different; active proton and onium salt is not included in the molecule) and/or a partial condensate thereof.

- 12. (original) A modified conjugated diene polymer characterized by further modifying a modified conjugated diene polymer wherein Y¹ in the formula (I) is a hydrogen atom with at least one of a compound having an isocyanate group and a condensate thereof.
- 13. (original) A polymerization initiator characterized by the following formula (V):



(wherein R^1 , R^2 and R^3 are the same mining as mentioned above; Y^2 is a substituted silyl group; a part of R^1 , R^2 , R^3 and Y^2 may be bonded to each other to form a cyclic structure; M^1 is an alkali metal or an alkaline earth metal).

14. (original) A polymerization initiator solution characterized by adding a diamine compound represented by the following formula (VI):



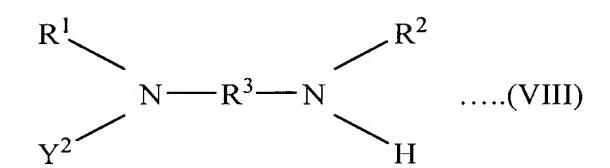
(wherein R^1 and R^2 are independently an alkyl or aryl group having a carbon number of 1-20 or a hydrogen atom; R^3 is the same meaning as mentioned above; a part of R^1 , R^2 and R^3 may be

bonded to each other to form a cyclic structure) with a silyl compound represented by the following formula (VII):

$$Y^2-X^2$$
 (VII)

(wherein Y^2 is the same meaning as mentioned above; X^2 is one selected from a halogen atom, a thioalkyl group having a carbon number of 1-20, cyano group and trifluoromethylsulfonyl group) and adding an organic alkali metal compound or an organic alkaline earth metal compound thereto.

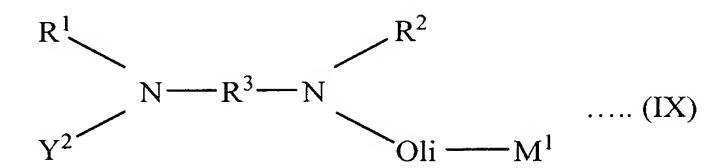
15. (original) A method of producing a polymerization initiator, characterized in that (i) a diamine compound of the formula (VI) is added with a silyl compound of the formula (VII) to form a silylated diamine compound represented by the following formula (VIII):



(wherein R^1 , R^2 , R^3 and Y^2 are the same meaning as mentioned above; a part of R^1 , R^2 , R^3 and Y^2 may be bonded to each other to form a cyclic structure);

- (ii) the said silylated diamine compound is added with an organic alkali metal compound or an organic alkaline earth metal compound to form a polymerization initiator of the formula (V).
- 16. (original) A method of producing a polymerization initiator according to claim 15, wherein X^2 in the formula (VII) is a halogen atom.

- 17. (original) A method of producing a modified conjugated diene polymer, characterized in that (i) the diamine compound of the formula (VI) is added with the silyl compound of the formula (VII) to form a silylated diamine compound of the formula (VIII);
- (ii) the silylated diamine compound is added with the organic alkali metal compound or the organic alkaline earth metal compound to form the polymerization initiator of the formula (V); and
- (iii) the polymerization initiator is used to polymerize a conjugated diene compound or polymerize a conjugated diene compound and aromatic vinyl compound.
- 18. (original) A modified conjugated diene polymer obtained by using a polymerization initiator solution as claimed in claim 14 and polymerizing a conjugated diene compound or a conjugated diene compound and an aromatic vinyl compound.
- 19. (original) A method of producing a modified conjugated diene polymer, characterized in that (i) the diamine compound of the formula (VI) is added with the silyl compound of the formula (VII) to form a silylated diamine compound of the formula (VIII);
- (ii) the silylated diamine compound is added with the organic alkali metal compound or the organic alkaline earth metal compound to form the polymerization initiator of the formula (V);
- (iii) the polymerization initiator is added to a solution containing a conjugated diene compound to produce a low molecular weight polymer represented by the following formula (IX):



(wherein R¹, R², R³, Y² and M¹ are the same meaning as mentioned above; a part of R¹, R², R³ nd Y² may be bonded to each other to form a cyclic structure; Oil is an oligomer or polymer portion formed by polymerizing 3-300 conjugated diene compounds); and

- (iv) the low molecular weight polymer is added to a solution containing a conjugated diene compound or a solution containing a conjugated diene compound and an aromatic vinyl compound.
- 20. (original) A method of producing a modified conjugated diene polymer, characterized in that (i) the diamine compound of the formula (VI) is added with the silyl compound of the formula (VII) to form a silylated diamine compound of the formula (VIII);
- (ii) the silylated diamine compound is added to a solution containing a conjugated diene compound or a solution containing a conjugated diene compound and an aromatic vinyl compound; and
- (iii) the said solution is further added with an organic alkali metal compound or an organic alkaline earth metal compound.
- 21. (currently amended) A rubber composition characterized by including a modified conjugated diene polymer as claimed in any one of claims 1 to 12 and 18 claim 1 as a rubber component.

- 22. (original) A rubber composition according to claim 21, wherein a content of the modified conjugated diene polymer is not less than 10% by mass in the rubber component.
- 23. (original) A rubber composition according to claim 21, which is sulfur-crosslinking.
- 24. (original) A rubber composition according to claim 21, which is compounded with 10-100 parts by mass in total of carbon black and/or an inorganic filler per 100 parts by mass of the rubber component.
- 25. (original) A rubber composition according to claim 24, wherein 10-100 parts by mass of silica as the inorganic filler is compounded per 100 parts by mass of the rubber component.